

INTEGRATED DETECTOR

SC300 SC600



Optional lens : 48° /12° /6°



Infrared and partial discharge functions



4.3"/5"TFT touch screen



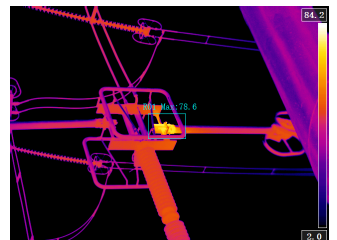
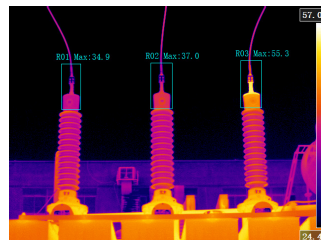
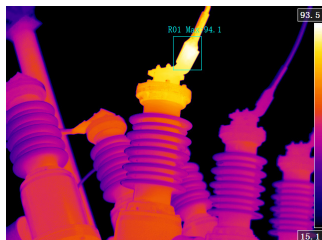
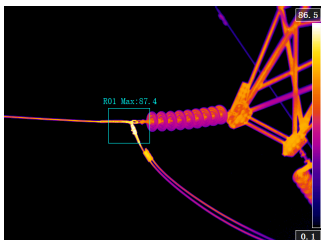
5 million pixels visual camera



Better performance with $\pm 2^{\circ}\text{C}$ as accuracy



Professional analysis software



SPECIFICATIONS

Model	SC300	SC600
Detector type	Uncooled FPA, VOX material	
IR Resolution	384x288	640x512
Thermal Sensitivity/NETD	<40mK (@30℃)	
Spectral Range	8~14μm	
Standard lens	28°	24°
Optional lens	48 °, 12 °, 6 °, etc	
Spatial resolution (IFOV)	1.30mrad (28° lens);2.26mrad (48° lens); 0.68mrad (12° lens);0.34mrad (6° lens)	0.66mrad (24° lens);1.39mrad (48° lens); 0.33mrad (12° lens);0.16mrad (6° lens)
Focus	Manual	
Minimum focal distance	0.15m (28° lens);0.15m (48° lens); 0.5m (12° lens);1m (6° lens)	0.15m (24° lens);0.15m (48° lens); 0.5m (12° lens);2m (6° lens)
Display	4.3"/5" Sunshine Visible Display Screen,480x272/800x480	5" Sunshine Visible Display Screen,800x480
Temperature measurement		
Object temperature range	-20℃~+150℃ (low temperature range)/0℃~+410℃ (medium temperature range)	
Optional temperature range	+300℃~+650℃/+300℃~+2,000℃/other ranges (high temperature range)	
Temperature measurement accuracy	±2℃ or ±2% of readings	
Visible light		
Digital camera	Built-in 500W pixel digital camera with LED light	
Laser		
Laser pointer	Support	
Image display		
Palette	10 color palettes	
Touch screen	Capacitive touch screen	
Wireless transmission		
4G (optional)	Transmit real-time images to mobile phones via 4G, view cloud images	
Measurement analysis		
Temperature measurement settings	10 points, 10 boxes, 5 lines at the same time, including maximum/minimum/average values	
Full screen maximum/minimum temperature	Support, automatically capture the highest/lowest temperature of the full screen	
Digital zoom	1×, 2×, 4×, 8×	
Radiance correction	Automatic, based on input values of emissivity	
Atmospheric transfer correction	Automatic, based on input values of distance, atmospheric temperature and relative humidity	
Alarm		
Alarm method	Automatic sound and light alarm for the set temperature value/above/below/below	
Satellite positioning (optional)		
GPS	For outdoor use, the screen displays the latitude and longitude of the device's location, and the photos taken and saved can be displayed with latitude and longitude in the analysis software	

SPECIFICATIONS

Image storage	
Storage method	32G high-speed SD card
Infrared image format	.jpg (including full temperature data)/.png (including full temperature data)
Visible light image format	.jpg
Infrared video format	H.264 or full-radiation infrared video
Video output	
Video output	HDMI
Video output interface	Micro HDMI interface
Partial discharge detection	
Partial discharge detection configuration	AA and TEV
AA parameters	
Detection frequency band	40±1kHz
Detection dynamic range	-8~68dBμV
Sensor sensitivity	-65dB(0dB=1volt/μbar RMS SPL)
Linearity error	≤10%
TEV parameters	
Detection frequency band	3~100MHz
Detection dynamic range	0~60dBmV
Linearity error	≤10%
Power system	
Battery type	Removable rechargeable lithium battery
Power supply voltage	DC12V
Battery operating time	General use>3 hours at 25°C
Charging method	Double-bay charger
Charging type	AC adapter
Power saving mode	Sleep mode
Physical parameters	
Weight	1.13kg (including battery)
Dimensions	260x135x136mm
Environmental parameters	
Operation temperature	-20°C~55°C
Storage temperature	-40°C~70°C
Humidity (operating and storage)	≤95%, non-condensing
Packaging level	IP54
Other parameters	
Analysis software	Windows 7 and above, secondary analysis, infrared detection report and other functions